

REMARKS

Applicant has reviewed, and carefully considered the final Office Action dated July 13, 2005. Claims 1, 8, 9, 16, 17, 24 and 25 have been amended and claims 7, 15, 23 and 26-27 have been canceled. Claims 1-6, 8-14, 16-22 and 24-25 are pending.

Applicant appreciates Examiner's indication of allowability of claims 5, 13, and 21.

In paragraph 2 on page 2 of the Office Action, claims 1, 6-9, 14-17, and 22-27 were rejected under 35 U.S.C. § 103(a) over Forehand (U.S. Patent No. 6,760,174) in view of Kamijima (U.S. Patent Pub. No. 2003/0099054).

In paragraph 3 on page 2 of the Office Action, claims 2-4, 8, 10-12, 16, and 18-21 were rejected under 35 U.S.C. § 103(a) over Forehand as modified by Kamijima, and in further view of Tokuyama et al. (U.S. Patent No. 6,594,104).

Applicant respectfully traverses the § 103(a) rejections, but in the interest of expediting prosecution have amended the claims.

Forehand describes a method for data recovery when a read process is unsuccessful. According to Forehand, if a read is not successful, the fly height can be reduced and the read may be attempted again. This process may be repeated until the fly height cannot be lowered any further or the read is successful.

Kamijima merely describes applying a current to a heater during a read or a write to cause the magnetic head to jut or protrude toward the surface of the recording medium.

However, Kamijima and Forehand, alone or in combination, fail to disclose, teach or suggest determining whether the heating due to the writing process is too low to provide correct data writing and adjusting the heating until the writing is determined to be correct. While Kamijima discloses that the heater may be engaged during writing, Kamijima does not disclose any process for adjusting the heating during read or writing based upon reading reference data. However, Forehand assumes the writing of the data is not the problem because Forehand only adjusts the fly height during a read process. Thus, Forehand is incapable of providing a suggestion for determining whether the heating due to the writing process is too low to provide correct data writing and for adjusting the heating until the writing is determined to be correct.

Further, Forehand does not suggest a process for tuning of the read and write heights for a given storage device operating temperature. Rather, both Forehand and Kamijima are silent regarding adjusting the protrusion of the magnetic head according to a device operating temperature.

Still further, Forehand teaches away from adjusting heating when writing data. Forehand is clearly focused on adjusting the fly height only during the read process.

Therefore, Forehand and Kamijima, alone or in combination, fail to disclose, teach or suggest Applicant's invention as recited in the amended claims.

Tokuyama too fails to remedy the deficiencies of Forehand and Kamijima. Tokuyama merely discloses a magnetic disk unit having temperature sensing of an integrated circuit on suspension. Tokuyama does not, however, disclose, teach or suggest determining whether the heating due to the writing process is too low to provide correct data writing and adjusting the heating until the writing is determined to be correct.

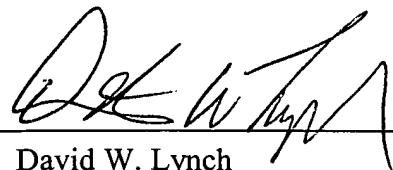
Therefore, Applicant respectfully submits that the claims are patentable over the cited references and requests that the § 103(a) rejections of the claims be withdrawn.

On the basis of the above amendments and remarks, it is respectfully submitted that the claims are in immediate condition for allowance. Accordingly, reconsideration of this application and its allowance are requested.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Attorney for Applicant, David W. Lynch, at 423-757-0264.

Respectfully submitted,

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